

IN THE CLAIMS:

Please cancel claim 15 without disclaimer or prejudice.

Please amend claims 1, 3, 5, 6, 8-10, 12, and 14-16 to read as follows:

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1. (Amended) A dielectric resonator comprising:

a dielectric block having a generally rectangular parallelepiped shape, wherein three resonant modes of said dielectric block are coupled, wherein said dielectric resonator has a first plane formed by chamfering a single one of a ridge portion of said dielectric block and a second plane formed by chamfering a single one of a second ridge portion of said dielectric block, said first chamfered ridge not being parallel to said second ridge portion.

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3. (Amended) A dielectric filter claimed in claim 2 characterized in disposing two or more of said dielectric resonators in said cut-off waveguide and providing a partition comprising a conductive material between said dielectric resonators.

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5. (Amended) A dielectric filter claimed in claim 2, 3, or 4, further comprising a second resonator in said cut-off waveguide, said second resonator being a type different than that described in claim 1.

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6. (Amended) A dielectric resonator in which three resonant modes of a dielectric block of a generally rectangular parallelepiped are coupled, wherein said block has three planes formed by chamfering three ridge portions of said dielectric block, respectively, said three chamfered ridges not being parallel to each other.

8. (Amended) A dielectric resonator comprising a dielectric block in the form of a generally rectangular parallelepiped having three-ridge portions chamfered thereof and generating TE₀₁ δ mode on electro-magnetically independent three surfaces of said dielectric block and having three surfaces of A₁, A₂, A₃ (hereafter called surfaces A) formed by chamfering three ridge portions sharing a point of said dielectric block and three surfaces of B₁, B₂, B₃ (hereafter called surfaces B) adjacent to each of the surfaces A respectively, in which an angle between 40 degrees and 50 degrees, both inclusive, is offered by said surfaces A and said surfaces B and an area ratio of said surfaces A with respect to said surfaces B and an area ratio of said surfaces A with respect to said surfaces B stands between 1% and 200%, both inclusive.

9. (Amended) A dielectric resonator comprising a dielectric block in the form of a generally rectangular parallelepiped having three-ridge portions chamfered thereof and generating TE₀₁ δ mode on electro-magnetically independent three surfaces of said dielectric block and having three surfaces A₁, A₂, A₃ (hereafter called surfaces A) formed by chamfering three ridge portions sharing an apex of said dielectric block, another three surfaces of A'₄, A'₅, A'₆ (hereafter called surfaces A') formed by chamfering three ridge portions sharing another apex on a diagonal line of said apex, another three surfaces of B'₁, B'₂, B'₃ (hereafter called surfaces B') adjacent to each of surfaces A and surfaces A' respectively and still another three surfaces of C'₁, C'₂, C'₃ (hereafter called surfaces C') adjacent to each of surfaces A and surfaces A' respectively, wherein an angle of 40 degrees through 50 degrees is offered by the surfaces A and B' or by the surfaces A' and C' and an area ratio of said surfaces A with respect to surfaces B' or an area ratio of said surfaces A' with respect to said surfaces C' stand between 1% and 200% both inclusive, respectively.

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Cm

10. (Amended) A dielectric filter using the dielectric resonator claimed in claim 8 or 9 characterized in that an angle between 40 degrees and 50 degrees, both inclusive, is offered by said three surfaces A or A' formed by chamfering three ridge portion sharing an apex of said dielectric block and other three surfaces B or B' adjacent thereto respectively and the surfaces A or A' and surfaces B or B' adjacent thereto respectively have three opposing surfaces of C1, C2, C3 (hereafter called surfaces C) or the surfaces C' and characterized in providing a feeding probe near the surface B and B', the surfaces B' and B', the surfaces C and C', or the surfaces C' and C'.

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12. (Amended) A dielectric filter using the dielectric resonator claimed in claim 8, further comprising a feeding probe, characterized in that an angle offered by a direction p and p' of the feeding probe with respect to the x, y, z axes of said dielectric resonator are variable within the range between -45 degrees and +45 degrees, both inclusive, while in use.

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14. (Amended) A dielectric filter claimed in claim 11, 12, or 13, wherein said feeding probe comprises a rod-type feeding probe.

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16. (Amended) A dielectric filter using the dielectric resonator claimed in claim 7, 8, or 9, further comprising at least two or more of said dielectric resonators in said cut-off waveguide of a generally rectangular parallelopiped.

Please add the following new claims 21-24:

21. (New) A dielectric filter of claim 10, wherein said feeding probe comprises a rod-type feeding probe.

22. (New) A dielectric resonator comprising:

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a dielectric block having a generally rectangular parallelepiped shape, wherein resonant modes of said dielectric block are coupled by chamfering a first ridge portion of said dielectric block and chamfering a second ridge portion, said first chamfered ridge not being parallel to said second chamfered ridge, said dielectric resonator being devoid of metal material, thereby permitting a magnetic field to extend outside said dielectric block.

23. (New) A dielectric resonator as claimed in claim 6, wherein said dielectric block further has a second set of three planes formed by chamfering another three ridge portions of said dielectric block, each said chamfered ridge of said second set of three chamfered ridges being opposite a respective one of said three chamfered ridges.

24. (New) A dielectric resonator as claimed in claim 6, wherein said three resonant modes are TE_{018} modes.

REMARKS

Applicant concurrently files herewith a petition and fee for a two-month extension of time.

Attached hereto is an Excess Claims Fee Letter and excess claims fee.

Also attached hereto is a marked up version of the changes made in the specification